06/23/2006 Print selected from Online session

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1626GMS

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	JAN 17	Pre-1988 INPI data added to MARPAT
NEWS 4	FEB 21	STN AnaVist, Version 1.1, lets you share your STN AnaVist visualization results
NEWS 5	FEB 22	The IPC thesaurus added to additional patent databases on STN
NEWS 6	FEB 22	Updates in EPFULL; IPC 8 enhancements added
NEWS 7	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS 8	MAR 03	Updates in PATDPA; addition of IPC 8 data without attributes
NEWS 9	MAR 22	EMBASE is now updated on a daily basis
NEWS 10	APR 03	New IPC 8 fields and IPC thesaurus added to PATDPAFULL
NEWS 11	APR 03	Bibliographic data updates resume; new IPC 8 fields and IPC thesaurus added in PCTFULL
NEWS 12	APR 04	STN AnaVist $500 visualization usage credit offered
NEWS 13	APR 12	LINSPEC, learning database for INSPEC, reloaded and enhanced
NEWS 14	APR 12	Improved structure highlighting in FQHIT and QHIT display in MARPAT
NEWS 15	APR 12	Derwent World Patents Index to be reloaded and enhanced during second quarter; strategies may be affected
NEWS 16	MAY 10	CA/CAplus enhanced with 1900-1906 U.S. patent records
NEWS 17	MAY 11	KOREAPAT updates resume
NEWS 18	MAY 19	Derwent World Patents Index to be reloaded and enhanced
NEWS 19	MAY 30	IPC 8 Rolled-up Core codes added to CA/CAplus and USPATFULL/USPAT2
NEWS 20	MAY 30	The F-Term thesaurus is now available in CA/CAplus
NEWS 21	JUN 02	The first reclassification of IPC codes now complete in INPADOC

NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005. V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT http://download.cas.org/express/v8.0-Discover/

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8
NEWS X25	X.25 communication option no longer available after June 2006

Enter NEWS followed by the item number or name to see news on that specific topic.

* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 19:53:59 ON 23 JUN 2006

=>
Uploading
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?
Choice (Y/n):
Switching to the Registry File...
Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 19:54:15 ON 23 JUN 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 22 JUN 2006 HIGHEST RN 889059-26-1
DICTIONARY FILE UPDATES: 22 JUN 2006 HIGHEST RN 889059-26-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

****
* *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *
****

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and

predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10802902a.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 19:54:35 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 183 TO ITERATE

100.0% PROCESSED 183 ITERATIONS 8 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2849 TO 4471
PROJECTED ANSWERS: 8 TO 329

L2 8 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 19:54:42 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3722 TO ITERATE

100.0% PROCESSED 3722 ITERATIONS 229 ANSWERS
SEARCH TIME: 00.00.01

L3 229 SEA SSS FUL L1

=> FIL HCAPLUS
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	166.94	167.15

FILE 'HCAPLUS' ENTERED AT 19:54:49 ON 23 JUN 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

```
         58032 CELL DEATH
                 (CELL(W)DEATH)
L7             1 L4 AND CELL DEATH

=> s l4 and py<=1999
      19965733 PY<=1999
L8           19 L4 AND PY<=1999

=> FIL REGISTRY
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    20.24     187.39

FILE 'REGISTRY' ENTERED AT 19:59:22 ON 23 JUN 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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provided by InfoChem.

STRUCTURE FILE UPDATES:   22 JUN 2006  HIGHEST RN 889059-26-1
DICTIONARY FILE UPDATES:  22 JUN 2006  HIGHEST RN 889059-26-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                    *
**********************************************************************

Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> d l1
L1 HAS NO ANSWERS
L1              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
```

FILE COVERS 1907 - 23 Jun 2006 VOL 145 ISS 1
FILE LAST UPDATED: 22 Jun 2006 (20060622/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

```
=> s l3
L4           35 L3

=> s l4 and pharmaceutical composition
         217198 PHARMACEUTICAL
          87838 PHARMACEUTICALS
         270143 PHARMACEUTICAL
                  (PHARMACEUTICAL OR PHARMACEUTICALS)
         656053 COMPOSITION
         301107 COMPOSITIONS
         951117 COMPOSITION
                  (COMPOSITION OR COMPOSITIONS)
        1401778 COMPN
         568094 COMPNS
        1718941 COMPN
                  (COMPN OR COMPNS)
        2166608 COMPOSITION
                  (COMPOSITION OR COMPN)
          28205 PHARMACEUTICAL COMPOSITION
                  (PHARMACEUTICAL(W)COMPOSITION)
L5             0 L4 AND PHARMACEUTICAL COMPOSITION

=> s l4 and composition
         656053 COMPOSITION
         301107 COMPOSITIONS
         951117 COMPOSITION
                  (COMPOSITION OR COMPOSITIONS)
        1401778 COMPN
         568094 COMPNS
        1718941 COMPN
                  (COMPN OR COMPNS)
        2166608 COMPOSITION
                  (COMPOSITION OR COMPN)
L6             0 L4 AND COMPOSITION

=> s l4 and cell death
        2071963 CELL
        1815612 CELLS
        2743292 CELL
                  (CELL OR CELLS)
         136518 DEATH
          10979 DEATHS
         144347 DEATH
                  (DEATH OR DEATHS)
```

```
=>
Uploading C:\Program Files\Stnexp\Queries\10802902a.str

L9      STRUCTURE UPLOADED

=> d 19
L9 HAS NO ANSWERS
L9              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.


=>
Uploading C:\Program Files\Stnexp\Queries\10802902b.str

L10     STRUCTURE UPLOADED

=> d l10
L10 HAS NO ANSWERS
L10             STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.


=> s l10
SAMPLE SEARCH INITIATED 20:05:54 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      180 TO ITERATE

100.0% PROCESSED      180 ITERATIONS                                7 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         2796 TO     4404
PROJECTED ANSWERS:               7 TO      298

L11           7 SEA SSS SAM L10

=> s l10 sss full
FULL SEARCH INITIATED 20:06:01 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     3693 TO ITERATE

100.0% PROCESSED     3693 ITERATIONS                              167 ANSWERS
SEARCH TIME: 00.00.01

L12         167 SEA SSS FUL L10

=> FIL HCAPLUS
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                 171.34     358.73

FILE 'HCAPLUS' ENTERED AT 20:06:05 ON 23 JUN 2006
```

FILE COVERS 1907 - 23 Jun 2006 VOL 145 ISS 1
FILE LAST UPDATED: 22 Jun 2006 (20060622/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

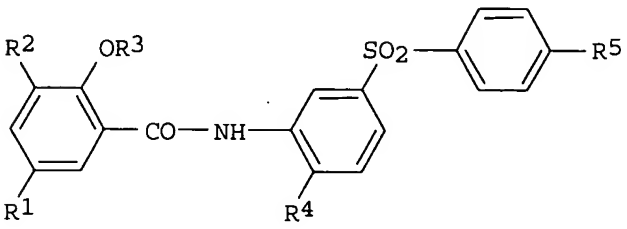
```
=> s l12
L13          32 L12

=> s l13 and pharmaceutical composition
         217198 PHARMACEUTICAL
          87838 PHARMACEUTICALS
         270143 PHARMACEUTICAL
                  (PHARMACEUTICAL OR PHARMACEUTICALS)
         656053 COMPOSITION
         301107 COMPOSITIONS
         951117 COMPOSITION
                  (COMPOSITION OR COMPOSITIONS)
        1401778 COMPN
         568094 COMPNS
        1718941 COMPN
                  (COMPN OR COMPNS)
        2166608 COMPOSITION
                  (COMPOSITION OR COMPN)
          28205 PHARMACEUTICAL COMPOSITION
                  (PHARMACEUTICAL(W)COMPOSITION)
L14           0 L13 AND PHARMACEUTICAL COMPOSITION

=> s l13 and composition
         656053 COMPOSITION
         301107 COMPOSITIONS
         951117 COMPOSITION
                  (COMPOSITION OR COMPOSITIONS)
        1401778 COMPN
         568094 COMPNS
        1718941 COMPN
                  (COMPN OR COMPNS)
        2166608 COMPOSITION
                  (COMPOSITION OR COMPN)
L15           0 L13 AND COMPOSITION
```

```
=> s l13 and cell death
       2071963 CELL
       1815612 CELLS
       2743292 CELL
                 (CELL OR CELLS)
        136518 DEATH
         10979 DEATHS
        144347 DEATH
                 (DEATH OR DEATHS)
         58032 CELL DEATH
                 (CELL(W)DEATH)
L16          1 L13 AND CELL DEATH

=> s l13 and py<=1999
      19965733 PY<=1999
L17         17 L13 AND PY<=1999

=> d his

     (FILE 'HOME' ENTERED AT 19:53:59 ON 23 JUN 2006)

     FILE 'REGISTRY' ENTERED AT 19:54:15 ON 23 JUN 2006
L1              STRUCTURE UPLOADED
L2            8 S L1
L3          229 S L1 SSS FULL

     FILE 'HCAPLUS' ENTERED AT 19:54:49 ON 23 JUN 2006
L4           35 S L3
L5            0 S L4 AND PHARMACEUTICAL COMPOSITION
L6            0 S L4 AND COMPOSITION
L7            1 S L4 AND CELL DEATH
L8           19 S L4 AND PY<=1999

     FILE 'REGISTRY' ENTERED AT 19:59:22 ON 23 JUN 2006
L9              STRUCTURE UPLOADED
L10             STRUCTURE UPLOADED
L11           7 S L10
L12         167 S L10 SSS FULL

     FILE 'HCAPLUS' ENTERED AT 20:06:05 ON 23 JUN 2006
L13          32 S L12
L14           0 S L13 AND PHARMACEUTICAL COMPOSITION
L15           0 S L13 AND COMPOSITION
L16           1 S L13 AND CELL DEATH
L17          17 S L13 AND PY<=1999

=> d l16 ibib abs hitstr tot

L16  ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2003:334664  HCAPLUS
DOCUMENT NUMBER:          138:348686
TITLE:                    Small molecules used to increase cell
                          death and treat cancer
INVENTOR(S):              Yuan, Junying; Degterev, Alexei; Mitchison, Timothy J.
PATENT ASSIGNEE(S):       President and Fellows of Harvard College, USA
SOURCE:                   U.S. Pat. Appl. Publ., 29 pp., Division of U.S. Ser.
                          No. 736,502, abandoned.
                          CODEN: USXXCO
```

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003083386	A1	20030501	US 2002-196080	20020716
US 6706766	B2	20040316		
US 2004266846	A1	20041230	US 2004-802902	20040316
PRIORITY APPLN. INFO.:			US 1999-170329P	P 19991213
			US 2000-736502	B3 20001213
			US 2002-196080	A3 20020716

OTHER SOURCE(S): MARPAT 138:348686
GI

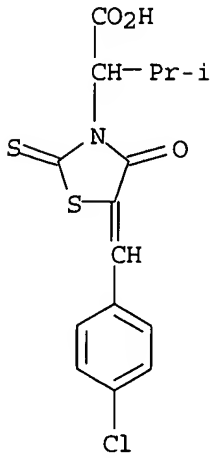


I

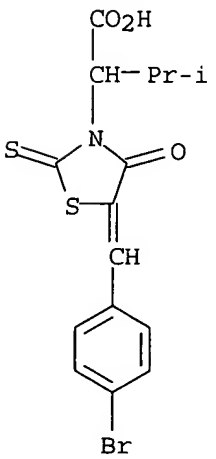
AB The invention features methods for increasing **cell death**. The invention also features compds. used to increase **cell death**. The invention further features methods for identifying compds. that increase **cell death**. The invention specifically claims compds. I (R1, R2, R4, R5 = H, halo, Ph; R3 = H, alkyl). Also included are thiazolidineacetic acid derivs. The compds. of the invention may be used to treat cancer.

IT **6593-73-3 300817-68-9**
RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(small mols. used to increase **cell death** and treat cancer)

RN 6593-73-3 HCAPLUS
CN 3-Thiazolidineacetic acid, 5-[(4-chlorophenyl)methylene]-α-(1-methylethyl)-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)

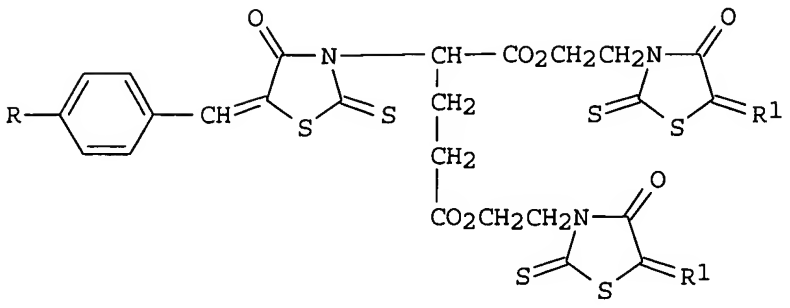


RN 300817-68-9 HCAPLUS
CN 3-Thiazolidineacetic acid, 5-[(4-bromophenyl)methylene]-α-(1-methylethyl)-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)



=> d l17 ibib abs hitstr tot

L17 ANSWER 1 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1996:512638 HCAPLUS
DOCUMENT NUMBER: 125:221685
TITLE: Synthesis of tricyclic rhodanine esters
AUTHOR(S): Lesyk, R. B.
CORPORATE SOURCE: L'vov. Gos. Med. Inst., Lvov, Ukraine
SOURCE: Farmatsevtichnii Zhurnal (Kiev) (**1995**), (4), 79-81
CODEN: FRZKAP; ISSN: 0367-3057
PUBLISHER: Zdorov'ya
DOCUMENT TYPE: Journal
LANGUAGE: Ukrainian
GI



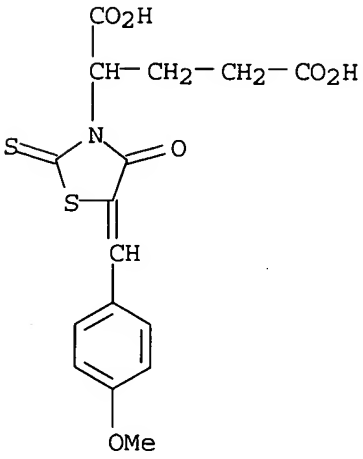
I

AB Title compds. I (R = H, MeO; R1 = H2, 4-methoxybenzylidene, 3,4-dimethoxybenzylidene, 4-chlorobenzylidene, 2-hydroxybenzylidene, etc.) were prepared from (arylidenerhodaninyl)pentanedioyl chlorides and 3-(2-hydroxyethyl)rhodanine. I showed moderate antimicrobial activity.

IT **167642-68-4**
RL: RCT (Reactant); RACT (Reactant or reagent)
(conversion to acid chloride)

RN 167642-68-4 HCAPLUS

CN Pentanedioic acid, 2-[5-[(4-methoxyphenyl)methylene]-4-oxo-2-thioxo-3-thiazolidinyl]- (9CI) (CA INDEX NAME)



L17 ANSWER 2 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:384040 HCAPLUS

DOCUMENT NUMBER: 123:198687

TITLE: Synthesis of biologically active tricyclic rhodanine diamides based on glutamic or aspartic acids

AUTHOR(S): Gorishniy, V. Y.; Lesyk, R. B.

CORPORATE SOURCE: Russia

SOURCE: Farmatsevtichnii Zhurnal (Kiev) (**1994**), (2), 52-6
CODEN: FRZKAP; ISSN: 0367-3057

PUBLISHER: Zdorov'ya

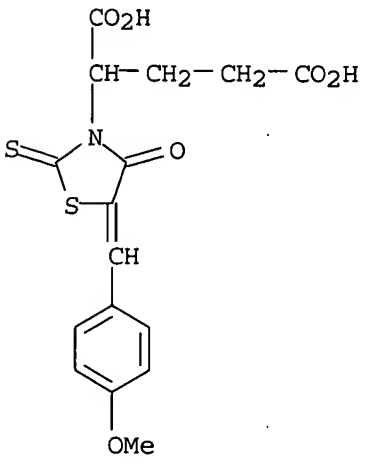
DOCUMENT TYPE: Journal
LANGUAGE: Ukrainian
OTHER SOURCE(S): CASREACT 123:198687

AB There have been obtained anhydrides and acyl chlorides of 5-benzylidene-3-(dicarboxyalkyl)rhodanine. The latter reacts on 4-aminoantipyrine or 3-aminorhodanine to give a series of tricyclic noncondensed rhodanine diamides. Synthesized diamide, having two antipyrine substituents, show antiinflammatory activity while tricyclic noncondensed derivs. of rhodanine and their 3-benzylidene substituents show sufficient antimicrobial activity.

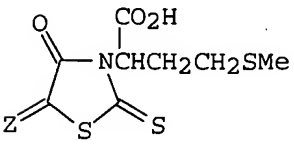
IT **167642-68-4**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of biol. active tricyclic rhodanine diamides based on glutamic or aspartic acids)

RN 167642-68-4 HCAPLUS

CN Pentanedioic acid, 2-[5-[(4-methoxyphenyl)methylene]-4-oxo-2-thioxo-3-thiazolidinyl]- (9CI) (CA INDEX NAME)



L17 ANSWER 3 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1984:490809 HCAPLUS
DOCUMENT NUMBER: 101:90809
TITLE: Synthesis of methionine-based rhodanines
AUTHOR(S): Yakubich, V. I.; Gritsyuk, L. V.
CORPORATE SOURCE: Med. Inst., Lvov, USSR
SOURCE: Farmatsevtichnii Zhurnal (Kiev) (**1984**), (1), 40-3
CODEN: FRZKAP; ISSN: 0367-3057
DOCUMENT TYPE: Journal
LANGUAGE: Ukrainian
OTHER SOURCE(S): CASREACT 101:90809
GI



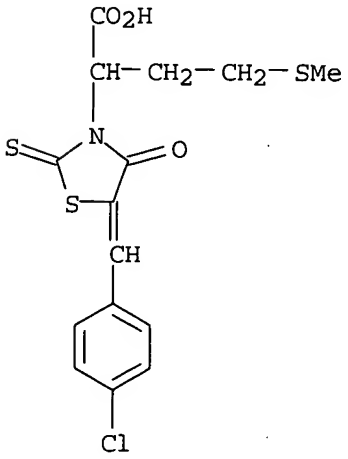
I

AB Treating methionine with CS2 in aqueous KOH gave the intermediate MeSCH2CH2CH(NHCS2K)CO2K, cyclocondensation of which with ClCH2CO2K gave 72% rhodamine I (Z = H2) (II). II condensed with 16 aromatic aldehydes, isatin and 1-methylisatin to give the corresponding I (Z = arylidene) in 52-99% yield.

IT **90812-37-6P 90812-38-7P 90812-39-8P**
90812-40-1P 90812-41-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

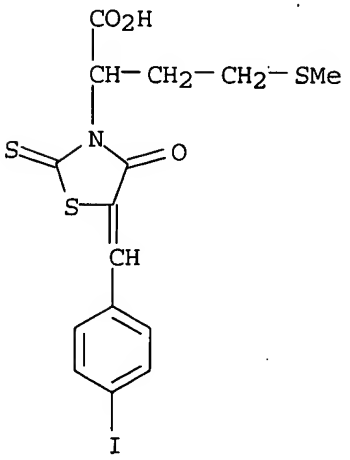
RN 90812-37-6 HCAPLUS

CN 3-Thiazolidineacetic acid, 5-[(4-chlorophenyl)methylene]-α-[2-(methylthio)ethyl]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)



RN 90812-38-7 HCAPLUS

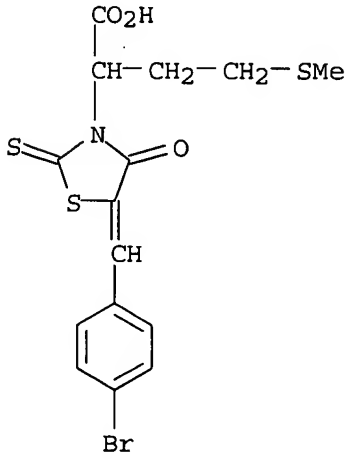
CN 3-Thiazolidineacetic acid, 5-[(4-iodophenyl)methylene]-α-[2-(methylthio)ethyl]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)



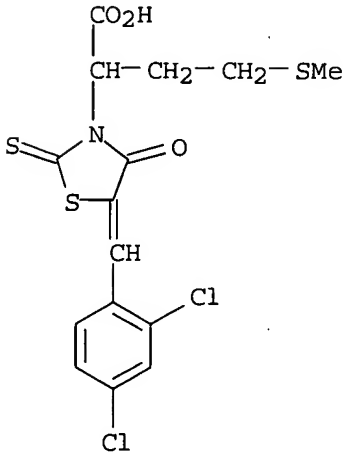
RN 90812-39-8 HCAPLUS

CN 3-Thiazolidineacetic acid, 5-[(4-bromophenyl)methylene]-α-[2-

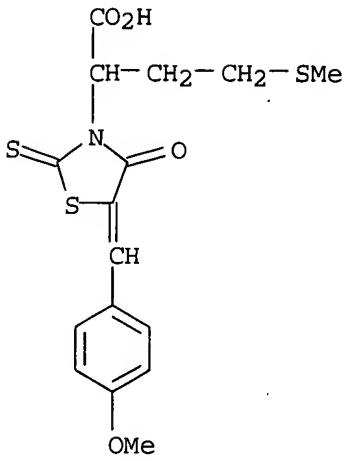
(methylthio)ethyl]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)



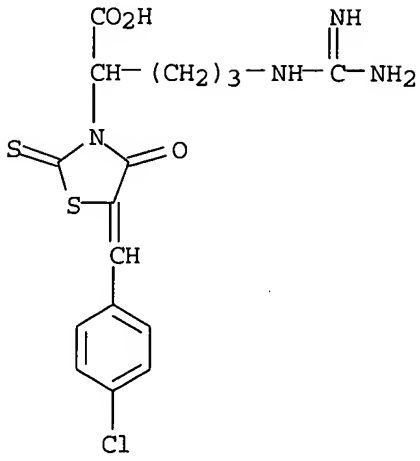
RN 90812-40-1 HCAPLUS
CN 3-Thiazolidineacetic acid, 5-[(2,4-dichlorophenyl)methylene]-α-[2-(methylthio)ethyl]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)



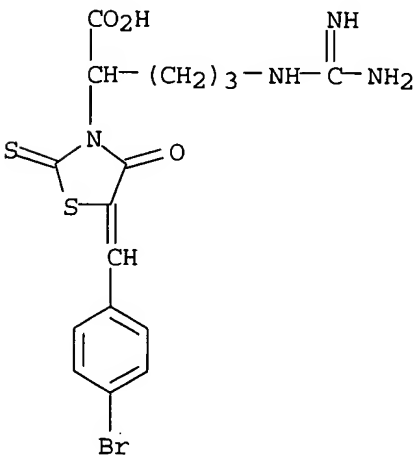
RN 90812-41-2 HCAPLUS
CN 3-Thiazolidineacetic acid, 5-[(4-methoxyphenyl)methylene]-α-[2-(methylthio)ethyl]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)



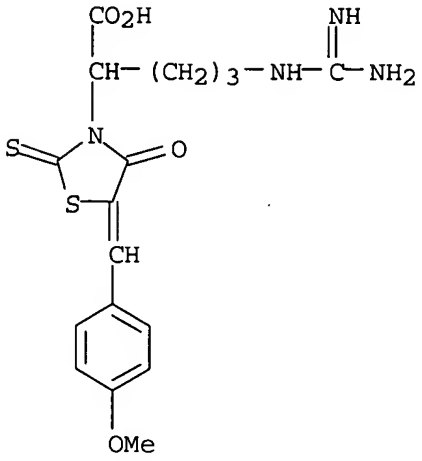
L17 ANSWER 4 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1972:78766 HCAPLUS
DOCUMENT NUMBER: 76:78766
TITLE: Electronic spectra of 3-(α-carboxy-δ-guanidino)butylrhodanine and its 5-derivatives
AUTHOR(S): Kovaliv, Yu. D.
CORPORATE SOURCE: Lvov Sci.-Res. Inst. Hematol. Blood Transfus., Lvov, USSR
SOURCE: Farmatsevtichnii Zhurnal (Kiev) (**1971**), 26(6), 8-11
CODEN: FRZKAP; ISSN: 0367-3057
DOCUMENT TYPE: Journal
LANGUAGE: Ukrainian
AB The electronic absorption spectra of 3-(α-carboxy-δ-guanidino)butylrhodanine (I) and of a series of its 5-arylidene derivatives were measured to study the effect of the substituents on the spectral characteristics of I. The observed bands with maxs. at 265 and 295-296 nm are attributed to the presence of the -N-C:S and -S-C:S groups, resp. The presence of substituents in the position-5 leads, in some cases, to bathochromic shifts in the maximum The most characteristic feature of the spectra is the appearance of an intensive K-band with a maximum at 370-465 nm, which is attributed to the presence of a conjugated chain with 5 double bonds.
IT **26069-82-9 26069-83-0 26074-96-4**
RL: PRP (Properties)
(electronic spectrum of)
RN 26069-82-9 HCAPLUS
CN 3-Thiazolidineacetic acid, α-[3-[(aminoiminomethyl)amino]propyl]-5-[(4-chlorophenyl)methylene]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)



RN 26069-83-0 HCAPLUS
CN 3-Thiazolidineacetic acid, α-[3-[(aminoiminomethyl)amino]propyl]-5-[(4-bromophenyl]methylene]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)



RN 26074-96-4 HCAPLUS
CN 3-Thiazolidineacetic acid, α-[3-[(aminoiminomethyl)amino]propyl]-5-[[(4-methoxyphenyl)methylene]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)

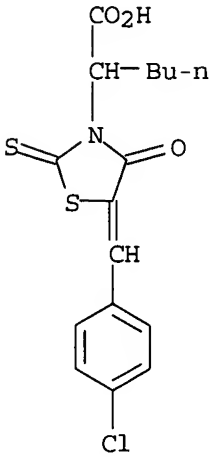


L17 ANSWER 5 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1971:442600 HCAPLUS
DOCUMENT NUMBER: 75:42600
TITLE: Electronic spectra of 3-α-carboxypentylrhodanine and of its 5-derivatives
AUTHOR(S): Kovaliv, Yu. D.
CORPORATE SOURCE: Sci. Res. Inst. Hematol. Blood Transfus., Lvov, USSR
SOURCE: Farmatsevtichnii Zhurnal (Kiev) (**1971**), 26(2), 25-8
CODEN: FRZKAP; ISSN: 0367-3057
DOCUMENT TYPE: Journal
LANGUAGE: Ukrainian

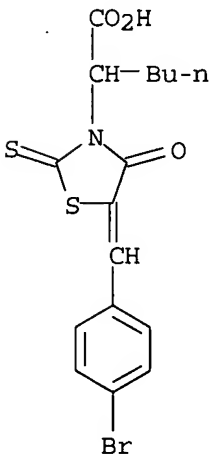
AB The uv spectrum of 3-α-carboxypentylrhodanine consists of 2 bands, at 265 and 300 nm. The introduction of 5-arylidene substituents (PhCH:, m-O2NC6H4CH:, p-O2NC6H4CH:, p-ClC6H4CH:, p-BrC6H4CH:, p-Me2NC6H4CH:, p-MeOC6H4CH:, 3,4-(MeO)2C6H3CH:, PhCH:CHCH:, and 9-anthrylmethylene causes the appearance of characteristic high intensity (log ε = 4.12 - 4.86) K band in the 369-455-nm region. The other characteristic bands are at 220-241, 253-281, and 288-334 nm.

IT **21468-82-6 21468-83-7 21468-85-9**
21468-86-0
RL: PRP (Properties)
(spectrum of, uv)

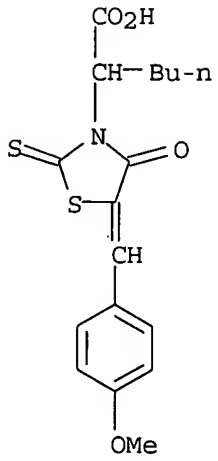
RN 21468-82-6 HCAPLUS
CN 3-Thiazolidineacetic acid, α-butyl-5-(p-chlorobenzylidene)-4-oxo-2-thioxo- (8CI) (CA INDEX NAME)



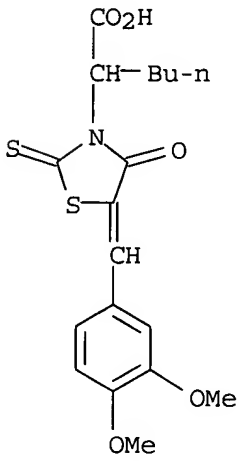
RN 21468-83-7 HCAPLUS
CN 3-Thiazolidineacetic acid, 5-(p-bromobenzylidene)-α-butyl-4-oxo-2-thioxo- (8CI) (CA INDEX NAME)



RN 21468-85-9 HCAPLUS
CN 3-Thiazolidineacetic acid, α-butyl-5-(p-methoxybenzylidene)-4-oxo-2-thioxo- (8CI) (CA INDEX NAME)



RN 21468-86-0 HCAPLUS
CN 3-Thiazolidineacetic acid, α-butyl-4-oxo-2-thioxo-5-veratrylidene- (8CI) (CA INDEX NAME)

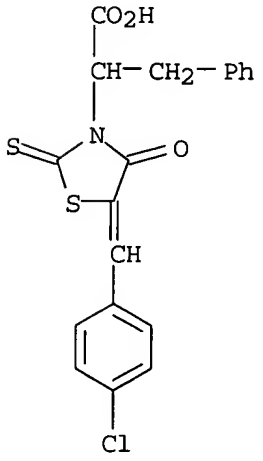


L17 ANSWER 6 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1970:31675 HCAPLUS
DOCUMENT NUMBER: 72:31675
TITLE: Synthesis and properties of rhodanines obtained from β-phenyl-α-alanine
AUTHOR(S): Kopiichuk, I. I.
CORPORATE SOURCE: Lvov Med. Inst., Lvov, USSR
SOURCE: Farmatsevtichnii Zhurnal (Kiev) (**1969**), 24(4), 26-9
CODEN: FRZKAP; ISSN: 0367-3057
DOCUMENT TYPE: Journal
LANGUAGE: Ukrainian
GI For diagram(s), see printed CA Issue.
AB Phenylalanine (0.25 mole), 0.5 mole KOH, and 0.25 mole CS2 was stirred 3 hr in 160 ml H2O, 0.25 mole ClCH2CO2H, neutralized with K2CO3, added, the mixture stirred 30 min, 100 ml boiling concentrated HCl added, the mixture heated 20

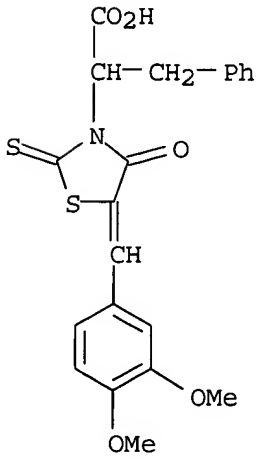
min, and the formed oil washed with H2O to give 79.5% I (R = H2) (II), m. 170-3°. II and an aldehyde (0.005 mole each), 1 g anhydrous NaOAc, and 10 ml HOAc was heated 3 hr to give I (R, % yield, and m.p. given): PhCH, 59.8, 196-8°; p-O2NC6H4CH, 88.6, 204-6°; m-O2NC6H4CH, 88.5, 132-3°; p-ClC6H4CH, 89.1, 174-5°; o-HOC6H4CH, 69.4, 202-3°; veratrylidene, 69.1, 152-3°; p-Me2NC6H4CH, 88.4, 203-5°; PhCH:CHCH, 61.0, 140-2°; 9-anthralidene (9-anthrylmethylene), 64.1, 99-101°; furfurylidene, 69.6, 143-5°. Spectral data were reported. I had antituberculous activity.

IT **24834-72-8P 24834-74-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

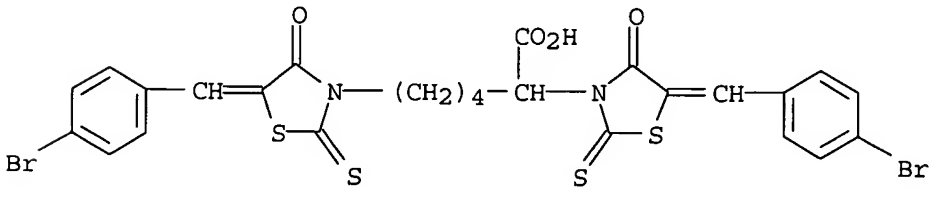
RN 24834-72-8 HCAPLUS
CN 3-Thiazolidineacetic acid, α-benzyl-5-(p-chlorobenzylidene)-4-oxo-2-thioxo- (8CI) (CA INDEX NAME)



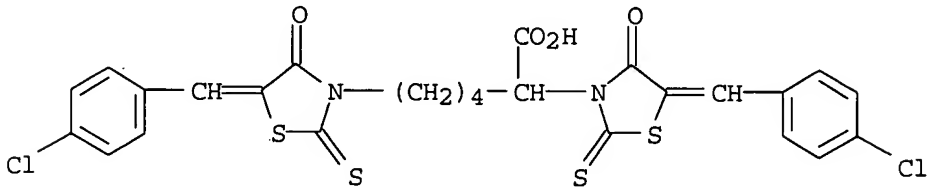
RN 24834-74-0 HCAPLUS
CN 3-Thiazolidineacetic acid, α-benzyl-4-oxo-2-thioxo-5-veratrylidene- (8CI) (CA INDEX NAME)



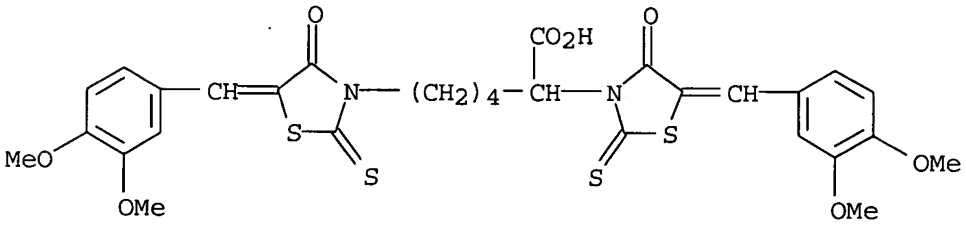
L17 ANSWER 7 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1970:27980 HCAPLUS
DOCUMENT NUMBER: 72:27980
TITLE: Rhodanine-3-carboxylic acid derivatives as reagents for inorganic analysis
AUTHOR(S): Kovaliv, Yu. D.; Turkevich, B. M.
CORPORATE SOURCE: Lvov Sci.-Res. Inst. Hematol. Blood Transfus., Lvov, USSR
SOURCE: Farmatsevtichnii Zhurnal (Kiev) (**1969**), 24(5), 28-34
CODEN: FRZKAP; ISSN: 0367-3057
DOCUMENT TYPE: Journal
LANGUAGE: Ukrainian
GI For diagram(s), see printed CA Issue.
AB The following derivs. of the title acid were obtained and used for detection of cations (R in I, II, and III and corresponding m.p. given): H2, 82-3°, 95-6°, 190-2°; PhCH, 134-5°, 202-4°, 255-6°; m-O2NC6H4CH, 150-2°, 183-5°, 245-7°; p-O2NC6H4CH, 162-3°, 234-5°, 183-5°; p-ClC6H4CH, 177-8°, 240-1°, 255-6°; p-BrC6H4CH, 179-80°, 240-1°, 274-5°; p-Me2NC6H4CH, 187-8°, 110-12°, 275-7°; p-MeOC6H4CH, 145-6°, 211-12°, 258-9°; 1,2-(MeO)2C6H4CH, 97-8°, 146-8°, 260-1°; PhCH:CHCH, 141-2°, 162-4°, 242-3°; 9-anthranylidene, 80-1°, 230-2°, 258-60°. The derivs. were sensitive reagents for Ag+, Au3+, Pt4+, and Pd2+ (detection limits 0.1-1 μg), and less sensitive to Cu2+ and Hg2+. The reagents gave color spots with the cations when detected by paper chromatog. The most sensitive for Cu2+ (0.02 μg) were I with R = p-Me2NC6H4CH and 9-anthranylidene, and for Hg2+ p-Me2NC6H4CH derivs. of I-III and the veratrylidene derivative of II. For Pt4+ the most sensitive was the parent acid of II and the veratrylidene derivative of III (0.1 γ). Unsubstituted acids gave characteristic reactions only for Cu2+, Ag+, Au3+, Pt4+, and Pd2+. Introduction of arylidene substituents in position 5 of the rhodanine ring did not generally enhance sensitivity for cations. The most sensitive of the arylidene derivs. of the 3 acids were those of i. p-Me2NC6H4CH derivative of I was the characteristic reagent for Zn2+ an d the same derivative of III proved the group reagent for Zn2+, Co2+, Ni 2+, Y3+, In3+, Pr3+, Sm3+, Gd3+, Nd3+, Er3+, Th4+, Yb3+, La3+, and Ce4+.
IT **13112-37-3 13185-06-3 13185-07-4 21468-82-6 21468-83-7 21468-85-9 21468-86-0 26069-76-1 26069-82-9 26069-83-0 26074-96-4 26074-97-5**
RL: ANST (Analytical study)
(in detection of metal ions)
RN 13112-37-3 HCAPLUS
CN Hexanoic acid, 2,6-bis[5-(p-bromobenzylidene)-4-oxo-2-thioxo-3-thiazolidinyl]- (8CI) (CA INDEX NAME)



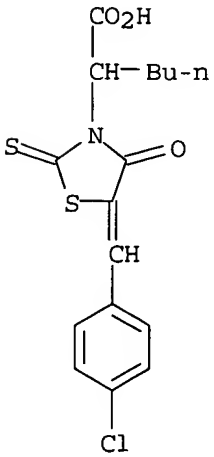
RN 13185-06-3 HCAPLUS
CN Hexanoic acid, 2,6-bis[5-(p-chlorobenzylidene)-4-oxo-2-thioxo-3-thiazolidinyl]- (8CI) (CA INDEX NAME)



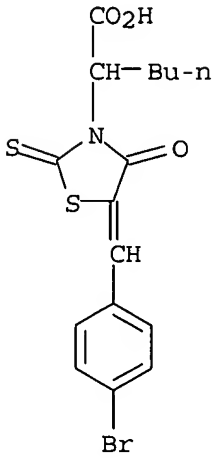
RN 13185-07-4 HCAPLUS
CN Hexanoic acid, 2,6-bis(4-oxo-2-thioxo-5-veratrylidene-3-thiazolidinyl)- (8CI) (CA INDEX NAME)



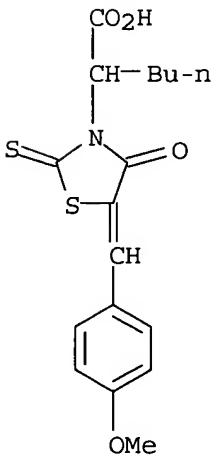
RN 21468-82-6 HCAPLUS
CN 3-Thiazolidineacetic acid, α-butyl-5-(p-chlorobenzylidene)-4-oxo-2-thioxo- (8CI) (CA INDEX NAME)



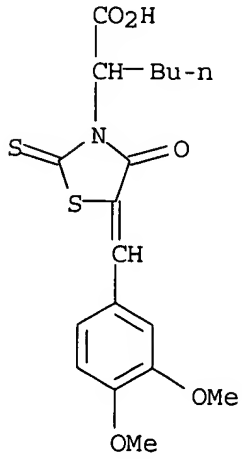
RN 21468-83-7 HCAPLUS
CN 3-Thiazolidineacetic acid, 5-(p-bromobenzylidene)-α-butyl-4-oxo-2-thioxo- (8CI) (CA INDEX NAME)



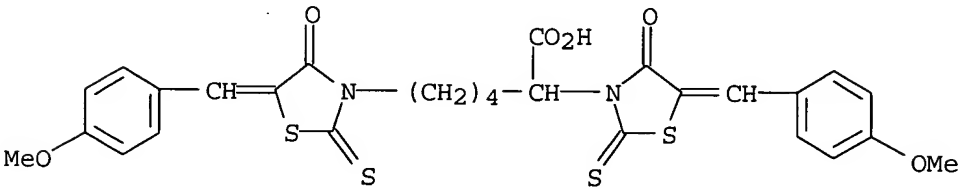
RN 21468-85-9 HCAPLUS
CN 3-Thiazolidineacetic acid, α-butyl-5-(p-methoxybenzylidene)-4-oxo-2-thioxo- (8CI) (CA INDEX NAME)



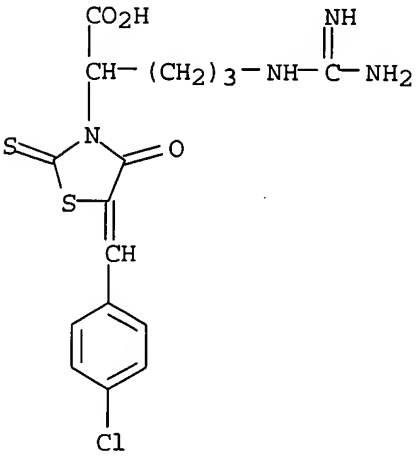
RN 21468-86-0 HCAPLUS
CN 3-Thiazolidineacetic acid, α-butyl-4-oxo-2-thioxo-5-veratrylidene- (8CI) (CA INDEX NAME)



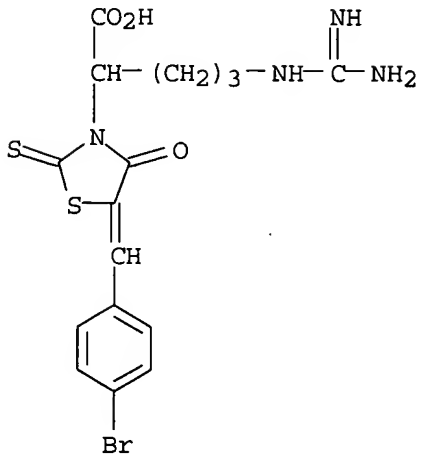
RN 26069-76-1 HCAPLUS
CN Hexanoic acid, 2,6-bis[5-(p-methoxybenzylidene)-4-oxo-2-thioxo-3-thiazolidinyl]- (8CI) (CA INDEX NAME)



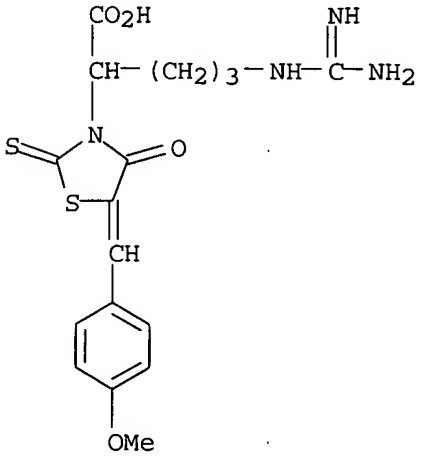
RN 26069-82-9 HCAPLUS
CN 3-Thiazolidineacetic acid, α-[3-[(aminoiminomethyl)amino]propyl]-5-[(4-chlorophenyl)methylene]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)



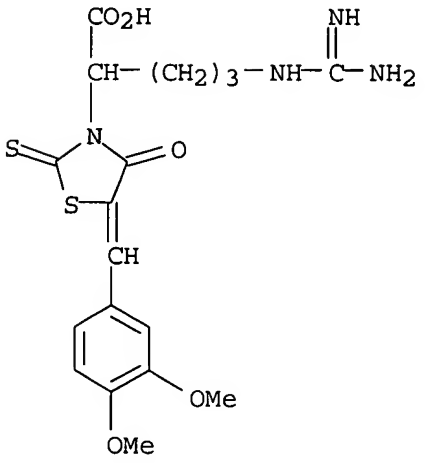
RN 26069-83-0 HCAPLUS
CN 3-Thiazolidineacetic acid, α-[3-[(aminoiminomethyl)amino]propyl]-5-[(4-bromophenyl]methylene]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)



RN 26074-96-4 HCAPLUS
CN 3-Thiazolidineacetic acid, α-[3-[(aminoiminomethyl)amino]propyl]-5-[[(4-methoxyphenyl)methylene]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)



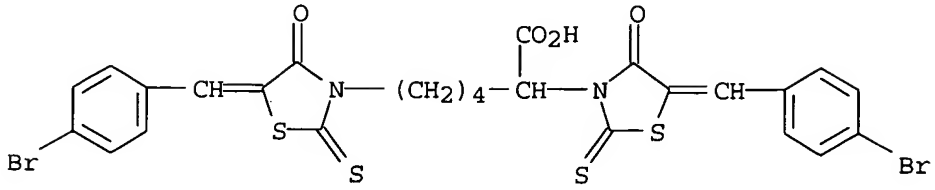
RN 26074-97-5 HCAPLUS
CN 3-Thiazolidineacetic acid, α-(3-guanidinopropyl)-4-oxo-2-thioxo-5-veratrylidene- (8CI) (CA INDEX NAME)



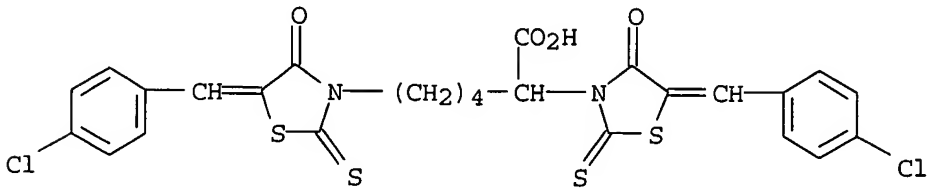
L17 ANSWER 8 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1969:101308 HCAPLUS
DOCUMENT NUMBER: 70:101308
TITLE: Electronic spectra of α,ε-bis(4-oxo-2-thioxo-3-thiazolidinyl)caproic acid and its 5-arylidene-derivatives
AUTHOR(S): Kovaliv, Yu. D.
CORPORATE SOURCE: Lvov Sci.-Res. Inst. Hematol. Blood Transfus., Lvov, USSR
SOURCE: Farmatsevtichnii Zhurnal (Kiev) (**1969**), 24(1), 19-22
CODEN: FRZKAP; ISSN: 0367-3057
DOCUMENT TYPE: Journal
LANGUAGE: Ukrainian

AB The uv absorption spectra of α,ε-bis(4-oxo-2-thioxo-3-thiazolidinyl)-caproic acid (I) and the influence of substituents such as PhCH:, m-O2NC6H4CH:, p-O2NC6H4CH:, p-ClC6H4CH:, p-BrC6H4CH:, p-Me2NC6H3CH:, 3,4-(MeO)2C6H3CH:, PhCH:CHCH:, and 9'-C14H9CH: at the 5 position on the spectral behavior of its 5-arylidene derivs. were investigated. The characteristic features (maximum, shifts) of the 4 bands, observed for both I and its derivs., are discussed. The above mentioned substitution resulted in an insignificant bathochromic shift of the corresponding maximum in the 3rd band, with the exception of the 9'-C14H9CH: derivative which had an appreciable shift in the 44-51 nm. region. Intensive absorption maximum were found in the 4th band at 337-463 nm. for all I derivs. owing to formation of a conjugated chain with 5 double bonds.

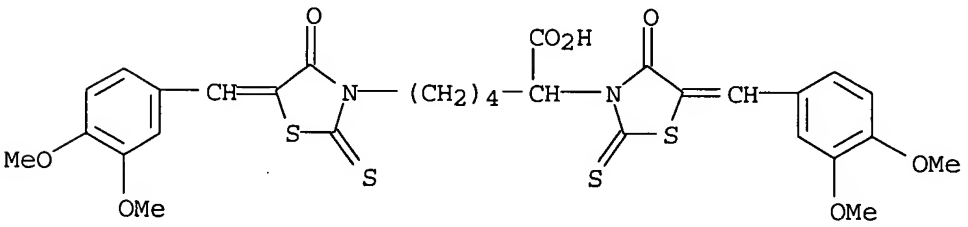
IT **13112-37-3 13185-06-3 13185-07-4**
RL: PRP (Properties)
(spectrum of, chain conjugation effect on)
RN 13112-37-3 HCAPLUS
CN Hexanoic acid, 2,6-bis[5-(p-bromobenzylidene)-4-oxo-2-thioxo-3-thiazolidinyl]- (8CI) (CA INDEX NAME)



RN 13185-06-3 HCAPLUS
CN Hexanoic acid, 2,6-bis[5-(p-chlorobenzylidene)-4-oxo-2-thioxo-3-thiazolidinyl]- (8CI) (CA INDEX NAME)



RN 13185-07-4 HCAPLUS
CN Hexanoic acid, 2,6-bis(4-oxo-2-thioxo-5-veratrylidene-3-thiazolidinyl)- (8CI) (CA INDEX NAME)



L17 ANSWER 9 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1969:88229 HCAPLUS
DOCUMENT NUMBER: 70:88229
TITLE: Synthesis of arginine-based rhodanines
AUTHOR(S): Kovaliv, Yu. D.
CORPORATE SOURCE: L'viv. Nauk.-Doslid. Inst. Gematol. Pereliv. Krovi, Lvov, USSR
SOURCE: Farmatsevtichnii Zhurnal (Kiev) (**1968**), 23(4), 22-8
CODEN: FRZKAP; ISSN: 0367-3057
DOCUMENT TYPE: Journal
LANGUAGE: Ukrainian
GI For diagram(s), see printed CA Issue.
AB To a mixture of 34.84 g. arginine in 100 ml. H2O and 22.4 g. KOH in 20 ml. H2O was added 15.2 g. CS2, and after stirring 4 hrs. and adding 18.9 g. ClCH2CO2H (neutralized with an equivalent amount of Na2CO3), the mixture was stirred 30 min., neutralized with HCl, and 80 ml. boiling 6 N HCl added to precipitate 47.6% α-(N-rhodanyl)-δ-guanidinovaleric acid chloride (I), m. 190-2° (AcOH). A mixture of 0.005 mole I, 0.005 mole

corresponding aromatic aldehyde, 10 ml. AcOH and 1 g. anhydrous AcONa was refluxed 3 hrs. and after cooling the precipitate was separated to give the following

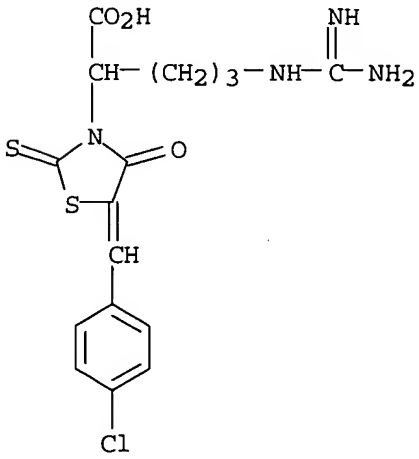
II.AcOH (R, % yield, and m.p. given): PhCH, 87.6, 255-6°; m-O2N-C6H4CH, 93.7, 245-7°; p-O2NC6H4CH, 87.5, 183-5°; p-Cl-C6H4CH, 80.8, 255-6°, p-BrC6H4CH, 42, 274-5°; p-Me2NC6-H4CH, 67.3, 275-7°; 3,4-(MeO)2C6H3CH, 82.3, 260-1°; PhCH:-CHCH, 79.7, 242-3°; 9-anthrylmethylidene, 39.7, 258-60°. Uv spectra of I and II are discussed.

IT **21709-75-1P 21709-76-2P 21709-78-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 21709-75-1 HCAPLUS
CN 3-Thiazolidineacetic acid, 5-(p-chlorobenzylidene)-α-(3-guanidinopropyl)-4-oxo-2-thioxo-, monoacetate (8CI) (CA INDEX NAME)

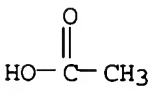
CM 1

CRN 26069-82-9
CMF C16 H17 Cl N4 O3 S2



CM 2

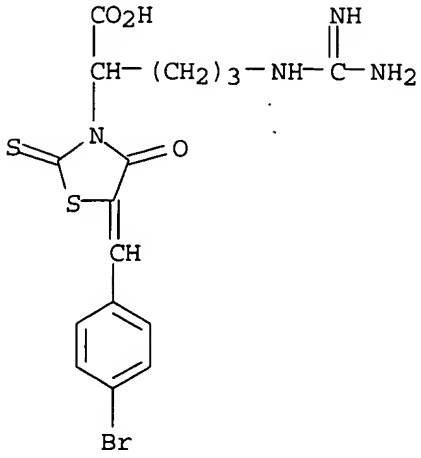
CRN 64-19-7
CMF C2 H4 O2



RN 21709-76-2 HCAPLUS
CN 3-Thiazolidineacetic acid, 5-(p-bromobenzylidene)-α-(3-guanidinopropyl)-4-oxo-2-thioxo-, monoacetate (8CI) (CA INDEX NAME)

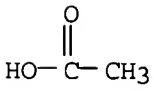
CM 1

CRN 26069-83-0
CMF C16 H17 Br N4 O3 S2



CM 2

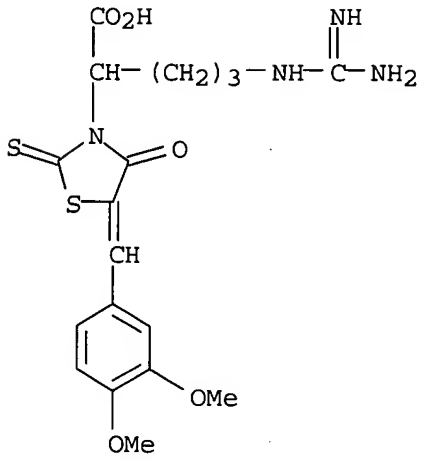
CRN 64-19-7
CMF C2 H4 O2



RN 21709-78-4 HCAPLUS
CN 3-Thiazolidineacetic acid, α-(3-guanidinopropyl)-4-oxo-2-thioxo-5-veratrylidene-, monoacetate (8CI) (CA INDEX NAME)

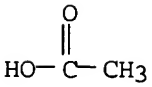
CM 1

CRN 26074-97-5
CMF C18 H22 N4 O5 S2



CM 2

CRN 64-19-7
CMF C2 H4 O2



L17 ANSWER 10 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1969:68238 HCAPLUS
DOCUMENT NUMBER: 70:68238
TITLE: Synthesis of thiocyanates based on norleucine
AUTHOR(S): Turkevich, M. M.; Kovaliv, Yu. D.
CORPORATE SOURCE: Lvov Med. Inst., Lvov, USSR
SOURCE: Farmatsevtichnii Zhurnal (Kiev) (**1968**), 23(5), 44-9
CODEN: FRZKAP; ISSN: 0367-3057
DOCUMENT TYPE: Journal
LANGUAGE: Ukrainian

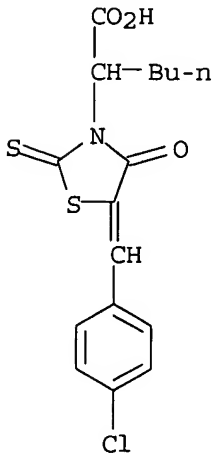
AB KOH (33.66 g.) in 225 cc. H2O and 22.83 g. CS2 was added to 39.3 g. norleucine in 150 cc. H2O, the mixture shaken 4 hrs., a mixture of 28.35 g. ClCH2CO2H in 60 cc. H2O and 15.88 g. Na2CO3 added, and the mixture shaken 30 min., neutralized with 240 cc. boiling HCl, and kept 16 hrs. to give 95.8% 3-α-carboxypentylrhodanine (I), m. 82-3° (1:3 AcOH-H2O). I, 0.01 mole aldehyde, 1 g. anhydrous AcONa, and 10 cc. AcOH was refluxed 3 hrs. and the mixture poured into H2O to give 3-α-carboxypentyl-5-arylidenerhodanines [arylidene, % yield, and m.p. (aqueous AcOH) given): PhCH:, 60.1, 134-5°; m-O2NC6H4CH:, 77.4, 150-2°; p-O2NC6H4CH:, 76.1, 162-3°; p-ClC6H4CH:, 66, 177-8°; p-BrC6H4CH:, 78.7, 179-80°; p-Me2NC6H4CH:, 71.9, 187-8°; anisylidene, 77.8, 145-6°; veratrylidene, 94.6, 97-8°; Ph-CH:CHCH:, 62.7, 141-2°; 9-anthralidene, 89.2, 80-1°. Uv spectra (data given) were discussed.

IT **21468-82-6P 21468-83-7P 21468-85-9P 21468-86-0P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

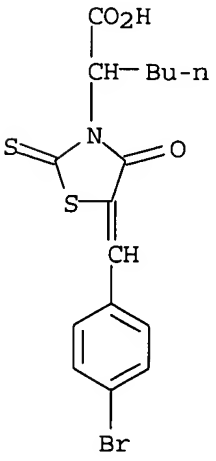
RN 21468-82-6 HCAPLUS

CN 3-Thiazolidineacetic acid, α-butyl-5-(p-chlorobenzylidene)-4-oxo-2-thioxo- (8CI) (CA INDEX NAME)



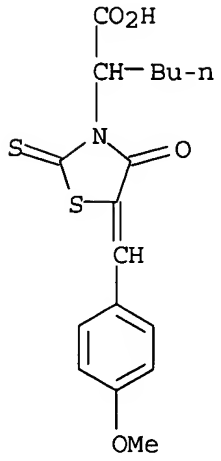
RN 21468-83-7 HCAPLUS

CN 3-Thiazolidineacetic acid, 5-(p-bromobenzylidene)-α-butyl-4-oxo-2-thioxo- (8CI) (CA INDEX NAME)

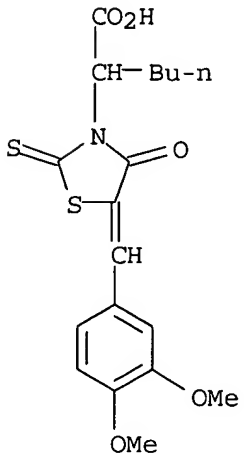


RN 21468-85-9 HCAPLUS

CN 3-Thiazolidineacetic acid, α-butyl-5-(p-methoxybenzylidene)-4-oxo-2-thioxo- (8CI) (CA INDEX NAME)



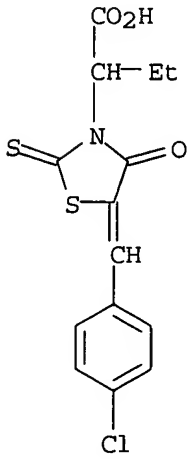
RN 21468-86-0 HCAPLUS
CN 3-Thiazolidineacetic acid, α-butyl-4-oxo-2-thioxo-5-veratrylidene- (8CI) (CA INDEX NAME)



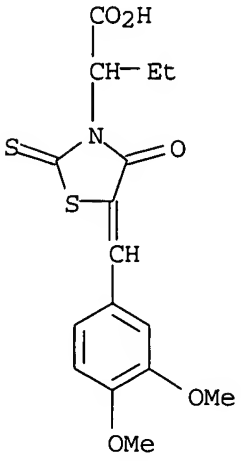
L17 ANSWER 11 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1969:37696 HCAPLUS
DOCUMENT NUMBER: 70:37696
TITLE: Uv absorption spectra of 3-(p-hydroxyphenyl)- and 3-(α-carboxypropyl)rhodanine derivatives
AUTHOR(S): Ladna, L. Ya.; Turkevich, M. M.
CORPORATE SOURCE: L'viv. Med. Inst., Lvov, USSR
SOURCE: Farmatsevtichnii Zhurnal (Kiev) (**1968**), 23(4), 31-5
CODEN: FRZKAP; ISSN: 0367-3057
DOCUMENT TYPE: Journal
LANGUAGE: Ukrainian
AB 3-(p-Hydroxyphenyl)-rhodanine (I), an analog of the antipyretic acetophene, and 3-(α-carboxypropyl)rhodanine (II), a biochem. imitator of α-aminobutyric acid, were synthesized by reacting p-aminophenol and α-aminobutyric acid, resp., with CS2, followed by

condensation with ClCH2CO2H. Condensing I and II with aromatic aldehydes gave new 5-arylidene derivs. of I and II. The 5-benzylidene, 5-(p-chloro-, 5-(p-nitro-, 5-(p-dimethylamino-, 5-(p-diethylamino-, 5-(m-nitro-, and 5-(p-bromobenzylidene), 5-cinnamylidene, and 5-furfurylidene derivs. of I, and the 5-benzylidene, 5-(p-nitro-, 5-(m-nitro-, 5-(p-chloro-, 5-(p-diethylamino-, and 5-(o-carboxybenzylidene), 5-veratrylidene, 5-anthrylidene, and 5-(α-naphthylidene) derivs. of II were synthesized. The uv absorption spectra of these compds. were measured and discussed.

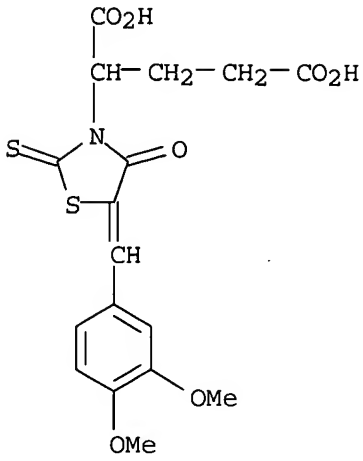
IT **13242-83-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 13242-83-6 HCAPLUS
CN 3-Thiazolidineacetic acid, 5-(p-chlorobenzylidene)-α-ethyl-4-oxo-2-thioxo- (8CI) (CA INDEX NAME)



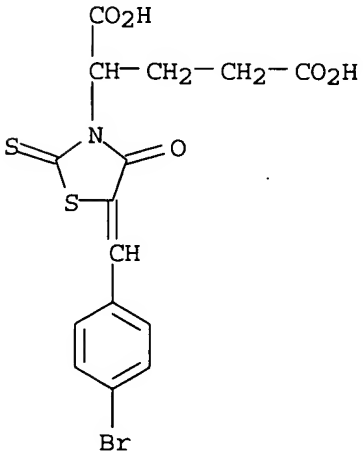
IT **13242-88-1**
RL: PRP (Properties)
(spectrum (uv) of)
RN 13242-88-1 HCAPLUS
CN 3-Thiazolidineacetic acid, α-ethyl-4-oxo-2-thioxo-5-veratrylidene- (8CI) (CA INDEX NAME)



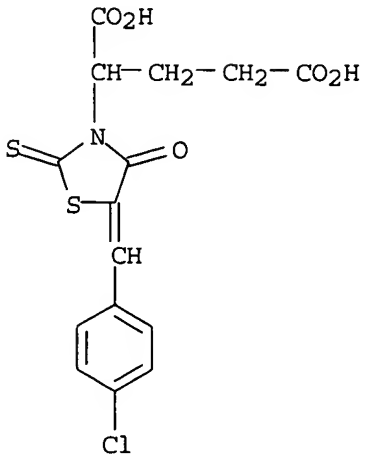
L17 ANSWER 12 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1968:49496 HCAPLUS
DOCUMENT NUMBER: 68:49496
TITLE: Synthesis of the rhodanine derivatives with possible antimetabolic activity. VI. 3-(α,γ-Dicarboxypropyl)rhodanine and its 5-arylidene derivatives
AUTHOR(S): Turkevich, B. M.
CORPORATE SOURCE: L'vovsk. Nauch.-Issled. Inst. Pereliv. Krovi, L'vov, USSR
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (**1967**), (4), 657-60
CODEN: KGSSAQ; ISSN: 0132-6244
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI For diagram(s), see printed CA Issue.
AB 3-(α,γ-Dicarboxypropyl)rhodanine (I), m. 98-9°, was prepared in a 67.5% yield by stirring 6 hrs. a solution of 44.1 g. glutamic acid, 50.49 g. KOH, and 22.8 g. CS2 in water followed by addition of 28.35 g. ClCH2CO2Na, 30 min. shaking and 2 hrs. heating after addition of 6N HCl on a water bath. Refluxing 5 millimoles I with 5 millimoles of a substituted aromatic aldehyde and 1.5 g. NaOAc in AcOH for 2 hrs. gave the following II (R, m.p., and % yield given): Ph, 207°, 68.9; o-O2NC6H4, 212-13°, 94; m-O2NC6H4, 228-9°, 95.9; p-O2NC6H4, 198-200°, 84.3; p-ClC6H4, 220-1°, 92.8; p-BrC6H4, 217-18°, 93.9; p-Me2NC6H4, 225°, 74; p-Et2NC6H4, 201-2°, 85.2; PhCH:CH, 173-4°, 84.3; 3-MeO-4-HOC6H3, 241-2°, 68.4; 3,4-(MeO)2C6H3, 130-2°, 84.1; 3,4-methylendioxyphenyl, 204-5°, 78.9; α-naphthyl, 171-3°, 82.5; 9-anthryl, 196-7°, 87.4. In the uv spectra, 3 to 4 absorption bands were found in the region 220-40 mμ, 244-278.5 mμ, 292-338 mμ, and 360-374 mμ.
IT **16942-78-2P 16942-83-9P 16942-84-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 16942-78-2 HCAPLUS
CN Glutaric acid, 2-(4-oxo-2-thioxo-5-veratrylidene-3-thiazolidinyl)- (8CI) (CA INDEX NAME)



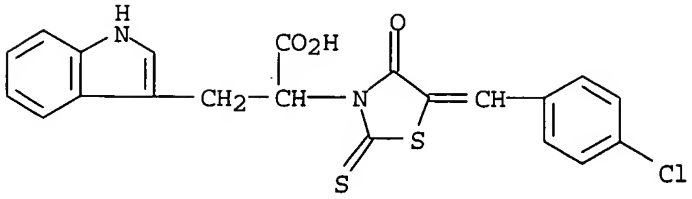
RN 16942-83-9 HCAPLUS
CN Glutaric acid, 2-[5-(p-bromobenzylidene)-4-oxo-2-thioxo-3-thiazolidinyl]- (8CI) (CA INDEX NAME)



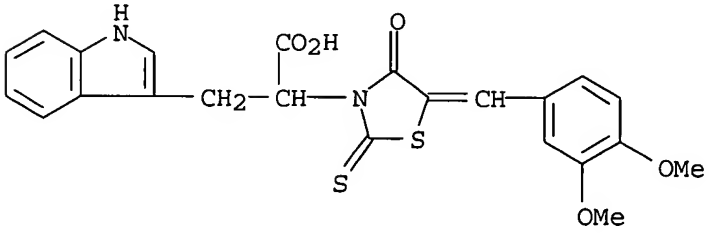
RN 16942-84-0 HCAPLUS
CN Glutaric acid, 2-[5-(p-chlorobenzylidene)-4-oxo-2-thioxo-3-thiazolidinyl]- (8CI) (CA INDEX NAME)



L17 ANSWER 13 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1967:85719 HCAPLUS
DOCUMENT NUMBER: 66:85719
TITLE: Synthesis and properties of rhodanines, obtained from tryptophan
AUTHOR(S): Kopiichuk, I. I.
CORPORATE SOURCE: Med. Inst., Lvov, USSR
SOURCE: Farmatsevtichnii Zhurnal (Kiev) (**1966**), 21(5), 3-6
CODEN: FRZKAP; ISSN: 0367-3057
DOCUMENT TYPE: Journal
LANGUAGE: Ukrainian
GI For diagram(s), see printed CA Issue.
AB Tryptophan (0.15 mole) mixed with 0.15 mole NaOH in 40 ml. water was slowly added to an agitated mixture of 0.15 mole CS2, 0.15 mole KOH, and 30 ml. water. In 4 hrs., 0.15 mole ClCH2CO2K was added to the I formed and the mixture was agitated 20-30 hrs. to produce II. The mixture was acidified with HCl to pH 2-3 and warmed to 90° to give 67.4% 3-(α-carboxy-β-3-indolyl)ethylrhodanine (III), m. 223-5° (AcOH). III hydrolyzed at 20° in alkaline media, (H2O.NH3, NaOH, Na2CO3), into blue or purple-blue colored mercaptocarboxylic acids (positive nitroprusside reaction). To prepare 5-alkylidene derivs. (IV) a mixture of 0.005 mole III, 10 ml. AcOH, 1-2 g. AcONa and an appropriate aromatic or heterocyclic aldehyde (0.005 mole) was refluxed 3 hrs., then quenched in water to precipitate the following IV (R, m.p., and % yield given): benzylidene, 236-7°, 88.2; p-nitrobenzylidene, 196-7°, 94.8; m-nitrobenzylidene, 227-9°, 90.7; p-chlorobenzylidene, 192-3°, 93.2; salicylidene, 231-2°, 80.6; p-(N,N-dimethylamino)benzylidene, 151-2°, 94.8; veratrylidene, 144-5°, 87.4; cinnamylidene, 249-51°, 92.3; 9-anthranylidene, 96-8°, 93.1; furfurylidene, 236-7°, 91.2.
IT **13789-85-0P 13789-88-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 13789-85-0 HCAPLUS
CN Indole-3-propionic acid, α-[5-(p-chlorobenzylidene)-4-oxo-2-thioxo-3-thiazolidinyl]- (8CI) (CA INDEX NAME)

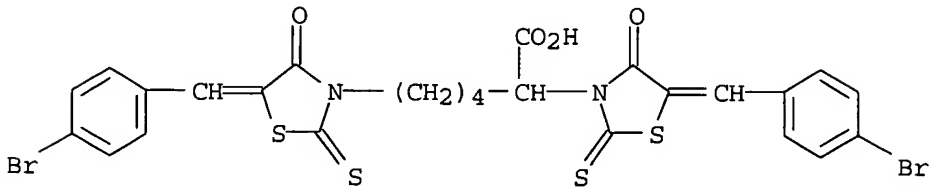


RN 13789-88-3 HCAPLUS
CN Indole-3-propionic acid, α-(4-oxo-2-thioxo-5-veratrylidene-3-thiazolidinyl)- (8CI) (CA INDEX NAME)

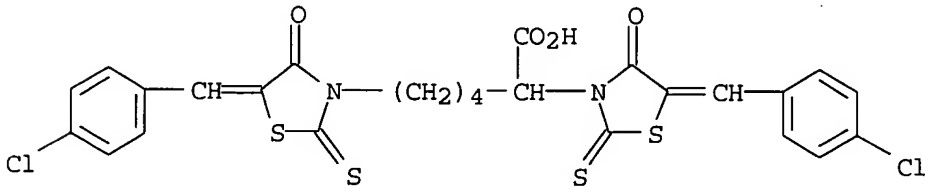


L17 ANSWER 14 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1967:10872 HCAPLUS
DOCUMENT NUMBER: 66:10872
TITLE: Synthesis of rhodanines based on lysine
AUTHOR(S): Kovaliv, Yu. D.; Turkevich, B. M.
CORPORATE SOURCE: Sci. Res. Inst. Hematology and Blood Transfusion, Lvov, USSR
SOURCE: Farmatsevtichnii Zhurnal (Kiev) (**1966**), 21(4), 22-7
CODEN: FRZKAP; ISSN: 0367-3057
DOCUMENT TYPE: Journal
LANGUAGE: Ukrainian
GI For diagram(s), see printed CA Issue.
AB α,ε-Di(N-rhodanyl)caproic acid (I), m. 95-6° (AcOH), was obtained in 91% yield by adding 22.83 g. CS2 to a mixture of solns. of 27.39 g. lysine in 75 ml. H2O and of 33.61 g. KOH in 22.5 ml. H2O, stirring 4 hrs., adding 28.35 g. ClCH2CO2H neutralized with Na2CO3, stirring 30 min., neutralizing with concentrated HCl, adding 120 ml. boiling 6N HCl and heating on a water bath 1 hr. at 85-90°. The following II were prepared by refluxing 3 hrs. a mixture of 0.0025 mole I, 0.005 mole RCHO, 1 g. anhydrous AcONa, and 10 ml. AcOH and recrystg. from AcOH (R, m.p., and % yield are given, resp.): Ph, 202-4°, 94.3; m-O2NC6H4, 183-5°, 93.7; p-O2NC6H4, 234-5°, 75.0; p-ClC6H4, 240-1°, 68.0; p-BrC6H4, 240-1°, 85.2; p-Me2NC6H4, 110-12°, 95.6; 3,4-(MeO)2C6H3, 146-8°, 77.4; styryl, 162-4°, 66.9; 2-hydroxyl-1-naphthyl, 275-6°, 90.0; 9-anthryl, 230-2°, 96.2. Uv and visible spectral data are given and discussed.
IT **13112-37-3P 13185-06-3P 13185-07-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 13112-37-3 HCAPLUS
CN Hexanoic acid, 2,6-bis[5-(p-bromobenzylidene)-4-oxo-2-thioxo-3-

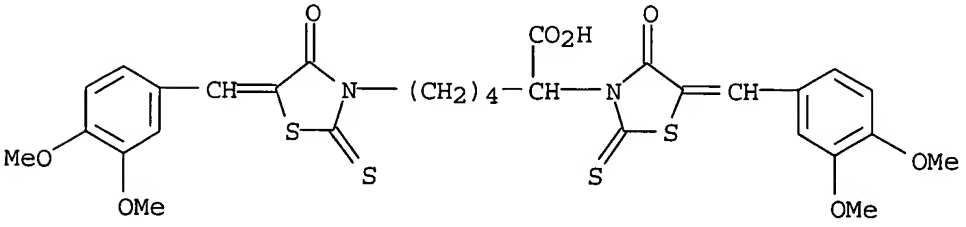
thiazolidinyl]- (8CI) (CA INDEX NAME)



RN 13185-06-3 HCAPLUS
CN Hexanoic acid, 2,6-bis[5-(p-chlorobenzylidene)-4-oxo-2-thioxo-3-thiazolidinyl]- (8CI) (CA INDEX NAME)



RN 13185-07-4 HCAPLUS
CN Hexanoic acid, 2,6-bis(4-oxo-2-thioxo-5-veratrylidene-3-thiazolidinyl)- (8CI) (CA INDEX NAME)

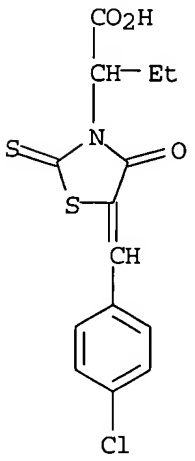


L17 ANSWER 15 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1967:2506 HCAPLUS
DOCUMENT NUMBER: 66:2506
TITLE: Synthesis of rhodanine derivatives based on α-aminobutyric acid
AUTHOR(S): Ladna, L. Ya.
CORPORATE SOURCE: Med. Inst., Lvov, USSR
SOURCE: Farmatsevtichnii Zhurnal (Kiev) (**1966**), 21(4), 14-18
CODEN: FRZKAP; ISSN: 0367-3057
DOCUMENT TYPE: Journal
LANGUAGE: Ukrainian
GI For diagram(s), see printed CA Issue.
AB 3-(α-Carboxypropyl)-rhodanine (I) and 9 of its 5-arylidene derivs. are described and their uv spectra given. A solution of 25.8 g. α-aminobutyric acid in 62 ml. water containing 14 g. KOH was added to a

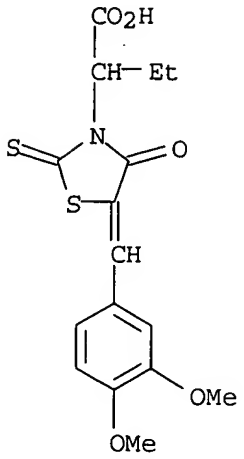
stirred mixture of 15 ml. CS2, 14 g. KOH, and 62 ml. water. The mixture was stirred 3 hrs., filtered, and treated with 25.5 g. ClCH2CO2H dissolved in 50 ml. water and 17.3 g. K2CO3. The mixture was stirred 30 min., acidified with concentrated HCl, treated with 150 ml. concentrated HCl, and heated at 90° to give 35% I, m. 139-40° (EtOH, C6H6, H2O). Equimolar amts. (0.01 mole) of ArCHO, I, anhydrous NaOAc, and 15 ml. glacial HOAc were refluxed 3 hrs. and poured into 500 ml. water. The solid was purified by boiling water-petroleum ether and crystallized from glacial HOAc and EtOH. Thus were prepared II (Ar, % yield, and m.p. given) Ph, 54, 168-9° (C6H6); 4-ClC6H4, 76, 174-5° (C6H6); 4-Me2NC6H4, 36, 190-1° (C6H6); 4-O2NC6H4, 93, 180-1° (EtOH); 3-O2NC6H4, 88, 206-18° (glacial HOAc); 2-(HO2C)C6H4, 45.5, 200-1° (glacial HOAc); veratryl, 72.8, 163-4° (C6H6); α-naphthyl, 85, 169-70° (glacial HOAc); 9-anthryl, 97, 202-3°, (C6H6).

IT **13242-83-6P 13242-88-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

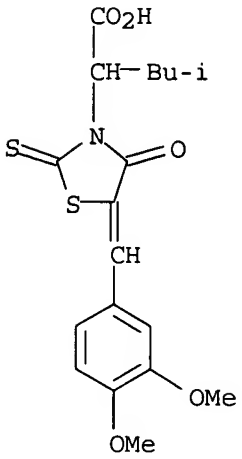
RN 13242-83-6 HCAPLUS
CN 3-Thiazolidineacetic acid, 5-(p-chlorobenzylidene)-α-ethyl-4-oxo-2-thioxo- (8CI) (CA INDEX NAME)



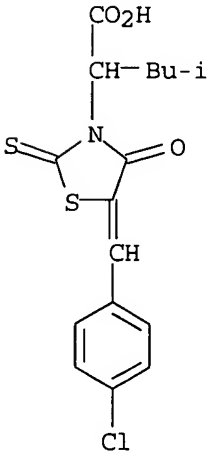
RN 13242-88-1 HCAPLUS
CN 3-Thiazolidineacetic acid, α-ethyl-4-oxo-2-thioxo-5-veratrylidene- (8CI) (CA INDEX NAME)



L17 ANSWER 16 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1966:473409 HCAPLUS
DOCUMENT NUMBER: 65:73409
ORIGINAL REFERENCE NO.: 65:13680a-c
TITLE: Rhodanines obtained from leucine
AUTHOR(S): Kopichuk, I. I.
CORPORATE SOURCE: Med. Inst., Lvov
SOURCE: Farmatsevtichnii Zhurnal (Kiev) (**1966**), 21(3), 13-17
CODEN: FRZKAP; ISSN: 0367-3057
DOCUMENT TYPE: Journal
LANGUAGE: Ukrainian
GI For diagram(s), see printed CA Issue.
AB 3-(α-Carboxy-γ-methylbutyl)rhodanine (I, R = H2) (Ia) and 5-arylidene derivs. were prepared and their uv spectra studied. CS2 and KOH (0.25 thole each) in 60 cc. H2O was added successively to leucine and KOH (0.25 mole each) in 60 cc. H2O, the mixture stirred 4 hrs., and 0.25 mole aqueous ClCH2CO2H (neutralized with K2CO3) added. The mixture was stirred 20-30 min., acidified with concentrated HCl (pH 2-3), heated to 90°, cooled, and the oil which separated was dissolved in 50 cc. concentrated AcOH, decolorized with active C, and poured into H2O to give 61.5% Ia, m. 99-101°; λ (maximum) 265 and 295 mμ (log ε 3.99 and 4.15). I, an appropriate aldehyde (5 millimoles each), 1 g. anhydrous AcONa, and 10 cc. AcOH was heated 3 hrs. and the mixture poured into H2O to give the following I (R, % yield, and m.p. given): PhCH, 64.9, 153-4°; p-O2NC6H4CH, 47.8, 192-3°; m-O2NC6H4CH, 73.7, 186-8°; p-ClC6H4CH, 86.4, 179-81°; o-HOC6H4CH, 68.2, 117-19°; p-Me2NC6H4CH, 44.6, 183-4°; veratrylidene, 88.4, 108-10°; PhCH:CHCH, 77.7, 171-3°; 9-anthranylidene, 87.7, 90-2°. I was easily hydrolyzed in alkaline medium. The uv spectra of I are discussed.
IT **10513-17-4**, 3-Thiazolidineacetic acid, α-isobutyl-4-oxo-2-thioxo-5-veratrylidene- **13054-71-2**, 3-Thiazolidineacetic acid, 5-(p-chlorobenzylidene)-α-isobutyl-4-oxo-2-thioxo-
(preparation and spectrum of)
RN 10513-17-4 HCAPLUS
CN 3-Thiazolidineacetic acid, α-isobutyl-4-oxo-2-thioxo-5-veratrylidene- (7CI, 8CI) (CA INDEX NAME)



RN 13054-71-2 HCAPLUS
CN 3-Thiazolidineacetic acid, 5-(p-chlorobenzylidene)-α-isobutyl-4-oxo-2-thioxo- (7CI, 8CI) (CA INDEX NAME)



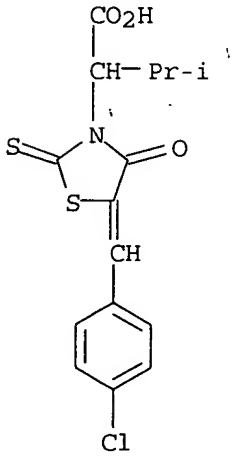
L17 ANSWER 17 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1966:429429 HCAPLUS
DOCUMENT NUMBER: 65:29429
ORIGINAL REFERENCE NO.: 65:5452a-c
TITLE: Synthesis and properties of rhodanines, obtained from valine
AUTHOR(S): Kopiichuk, I. I.
CORPORATE SOURCE: Med. Inst., Lvov
SOURCE: Farmatsevtichnii Zhurnal (Kiev) (1966), 21(1), 7-10
CODEN: FRZKAP; ISSN: 0367-3057
DOCUMENT TYPE: Journal
LANGUAGE: Ukrainian
AB 3-(1-Carboxy-2-methylpropyl)rhodanine (I), m. 113-15°, was obtained

in 54.9% yield by mixing 0.3 mole valine in 1 portion of KOH solution (3 moles in 80 ml. H2O) with 0.3 mole CS2 in the same amount of KOH solution After 3-hr. mixing, 0.3 mole ClCH2CO2H neutralized by K2CO3 was added to the mixture and mixed for 20-30 min., then neutralized with HCl, 150 ml. boiling concentrated HCl added, and the whole heated at 90° for 20-30 min. I separated as a yellow oil, which immediately crystallized By subsequent
condensation with aromatic aldehydes, the following 5-arylidene derivs. of I were prepared (arylidene group, m.p., and % yield given): benzylidene, 182-4°, 50; p-nitrobenzylidene, 193-4°, 62.8; m-nitrobenzylidene, 184-6°, 90.3; p-chlorobenzylidene, 190-1°, 83.8; salicylidene, 172-3°, 62.2; p-dimethylaminobenzylidene, 211-12°, 54; veratrylidene, 140-1°, 74.7; cinnamylidene, 175-6°, 80.6; 9-anthrylidene, 244-5°, 94.8; furfurylidene, 200-1°, 90.2.

IT **6593-73-3**, 3-Thiazolidineacetic acid, 5-(p-chlorobenzylidene)-α-isopropyl-4-oxo-2-thioxo- **6594-00-9**, 3-Thiazolidineacetic acid, α-isopropyl-4-oxo-2-thioxo-5-veratrylidene-
(preparation of)

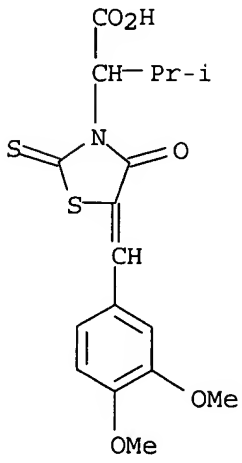
RN 6593-73-3 HCAPLUS

CN 3-Thiazolidineacetic acid, 5-[(4-chlorophenyl)methylene]-α-(1-methylethyl)-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)



RN 6594-00-9 HCAPLUS

CN 3-Thiazolidineacetic acid, α-isopropyl-4-oxo-2-thioxo-5-veratrylidene- (7CI, 8CI) (CA INDEX NAME)


CO2H
CH— Pr-i
N
S
O
S
CH
OMe
OMe